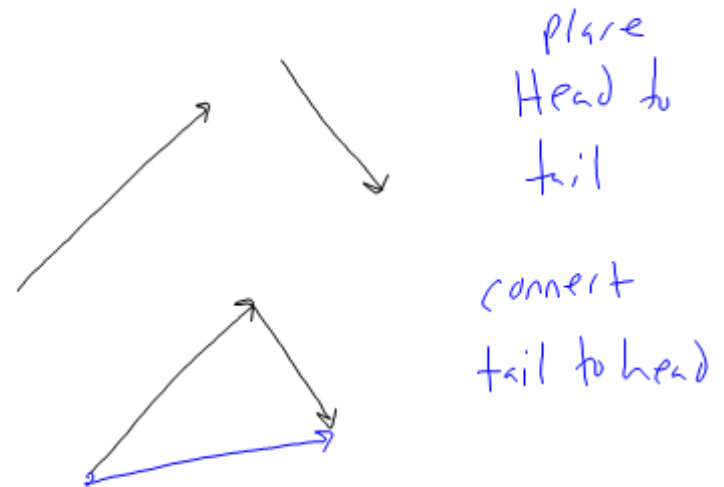
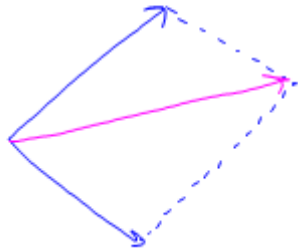
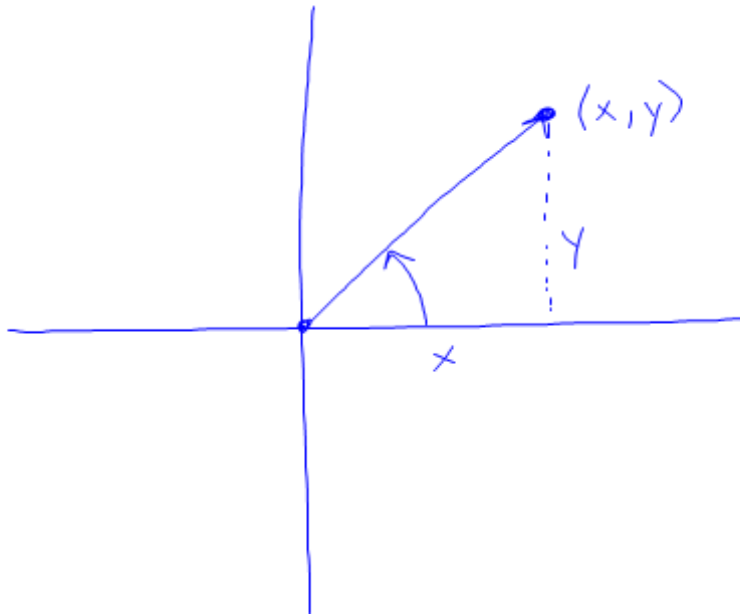
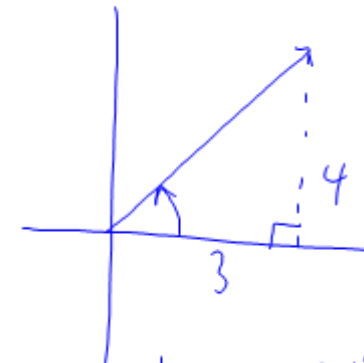


Place tail to tail



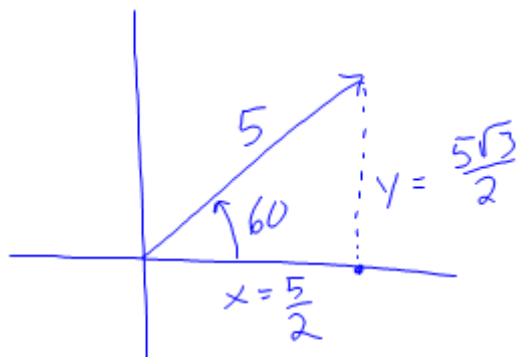


$$\vec{AB} = \langle 3, 4 \rangle$$

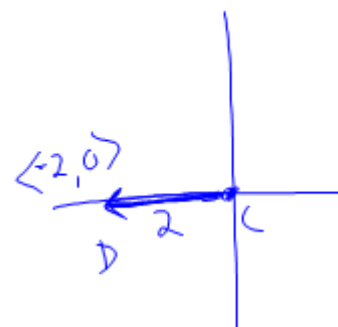


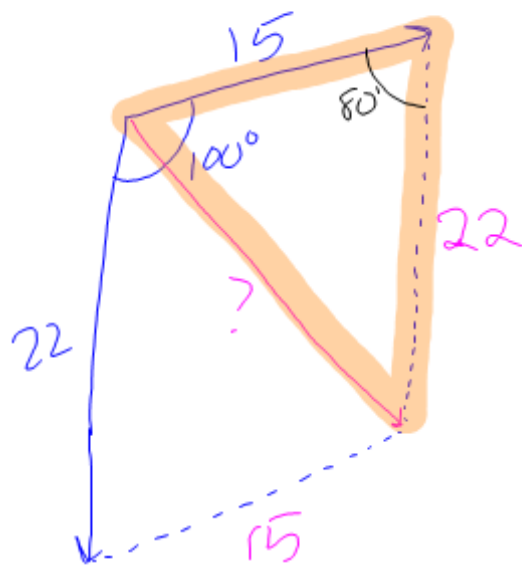
length pythagorean
 $\tan^{-1}\left(\frac{4}{3}\right)$ gives angle

$$\vec{AB} = \langle 5\cos 60^\circ, 5\sin 60^\circ \rangle$$



$$\vec{CD} = \langle 2\cos 180^\circ, 2\sin 180^\circ \rangle$$





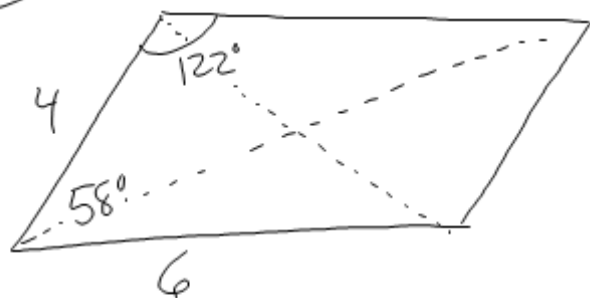
$$?^2 = 15^2 + 22^2 - 2(15)(22)\cos 80^\circ$$

$$? \approx 24$$

Sect. 7.4 #5-16($\frac{1}{2}$), 19, 21, 33, 34, 37, 38, 43, 49, 50, 53 + 56

Read up to but not including example 5

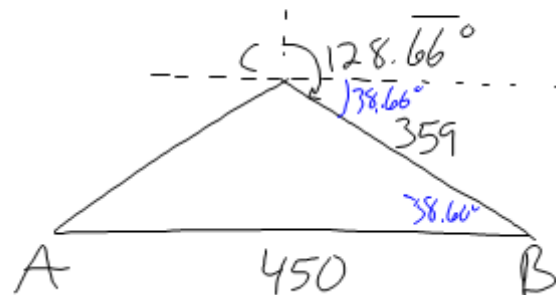
(40)



$$D_1^2 = 4^2 + 6^2 - 2(4)(6)\cos(122^\circ)$$

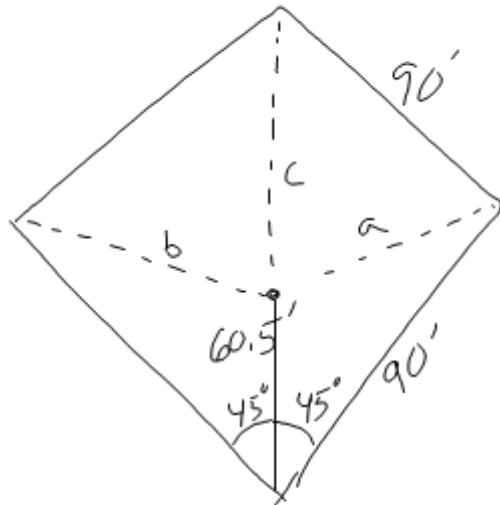
$$D_2^2 = 4^2 + 6^2 - 2(4)(6)\cos(58^\circ)$$

(41)



$$AC^2 = 359^2 + 450^2 - 2(359)(450)\cos 38.66^\circ$$

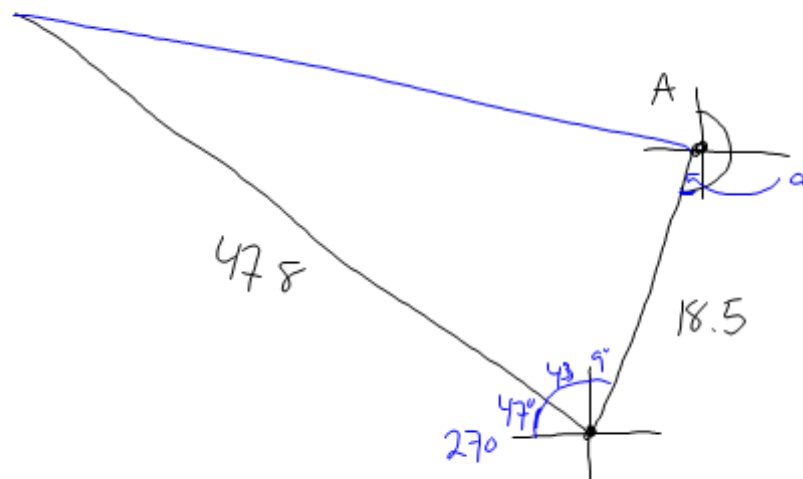
(49)



$$a^2 = 60.5^2 + 90^2 - 2(60.5)(90)\cos 45^\circ$$

$$b^2 \rightarrow$$

$$c^2 = 90^2 + 90^2 - 2(90)(90)\cos 90$$



$$C^2 = 47.8^2 + 18.5^2 - 2(47.8)(18.5)\cos(52^\circ)$$

$$C = 39.2$$